

WEST

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Oct 19, 1999

DERWENT-ACC-NO: 1998-160230

DERWENT-WEEK: 199950

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TITLE: Synergistic selective herbicide e.g. for use in maize, wheat, rice - comprises carbamoyl-triazolinone compound and e.g. acetochlor, alachlor, bentazon, clopyralid, cyanazine, 2,4-D, dimethenamid, flumetsulam

INVENTOR: DAHMEN, P; MUELLER, K ; RIEBEL, H ; THIELERT, W

PRIORITY-DATA: 1996DE-1035060 (August 30, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 5968873 A	October 19, 1999		000	A01N043/653
DE 19635060 A1	March 5, 1998		011	A01N047/38

INT-CL (IPC): A01 N 43/653; A01 N 47/38

ABSTRACTED-PUB-NO: DE 19635060A

BASIC-ABSTRACT:

A selective herbicide comprises a carbamoyltriazolinone (A) of formula (I); and one or more herbicides (B). (B) = acetochlor, aclonifen, alachlor, amidosulfuron, atrazin, benzoalprop-ethyl, bentazon, bifenox, bromobutide, bromofenoxim, bromoxynil, butachlor, butylate, carfentrazone-ethyl (F-8426), chlormethoxyfen, chloramben, chlornitrofen, chlorsulfuron, chlortoluron, cinosulfuron, clodinafop-propargyl, clopyralid, clopyrasulfuron (halosulfuron, NC-319), cloransulam-methyl, cyanazine, cyclosulfamuron (AC-322140), dicamba, dichlorprop-P, diclofop-methyl, difenzoquat, diflufenican, dimethenamid (SAN 582), 2,4-D, dimexyflam (IDH-1105), diquat, dithiopyr, DPX-KE-45 9, EPTC, esprocarb, ET-751, ethoxyfen, ethoxysulfuron (HOE-095404), fenoxaprop-ethyl, flamprop-isopropyl, flamprop-isopropyl-L, flamprop-methyl, flumiclorac-pentyl, fluoroglycofenethyl, flupoxam, flupropacil, flurenol, fluroxypyr, flumetsulam (DE-498), fluthiacet-methyl (KIH-920 1), glufosinate (ammonium salt), glyphosate (isopropylammonium salt), imazamethabenz-methyl, imazamethapyr, imazamox, imazaquin, imazethapyr, imazosulfuron, ioxynil, isoproturon, isoxaben, isoxaflutole (RPA-201772), linuron, MCPA, mecoprop, metazachlor, metobenzuron (UMP-488), metobromuron, metolachlor, metosulam (DE-511), metoxuron, metribuzin, metsulfuron-methyl, naproanilide, neburon, nicosulfuron, oxasulfuron, paraquat, pendimethalin, primisulfuron-methyl, prosulfocarb, prosulfuron, pretilachlor, propachlor, pyridate, pyrazolate, pyrazoxyfen, pyrazosulfuron-ethyl, quinmerac, rimsulfuron, simazin, sulcotrione, selfentrazone (F-6285), sulfosate, sulfosulfuron (MON-37500), terbuthylazine, terbutryn, thenylchlor, thidiazimin, thifensulfuron-methyl, tralkoxydim, triallate, triasulfuron, tribenuron-methyl, tridiphane or trifluralin. R1 = H, OH, NH2, or (all optionally substituted) alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkynyloxy, alkylamino, alkenylamino, alkynylamino, alkylideneamino, dialkylamino, cycloalkyl, cycloalkylalkyl, aryl or arylalkyl; R2 = alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkynyloxy, alkylthio, alkenylthio, alkynylthio, alkylamino, alkenylamino, alkynylamino, dialkylamino, cycloalkyl, cycloalkyloxy, cycloalkylalkyl, aryl, aryloxy, arylthio, arylamino or arylalkyl (all optionally substituted); R3 = alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, arylalkyl, arylalkenyl or arylalkynyl.

USE - The herbicide composition is used in maize, wheat, barley and rice, especially in conventional or soil-improving maize cultivation (claimed) or in other monocotyledon or dicotyledon crops, against both dicotyledon and monocotyledon weeds. The combination is used in the soil before planting seeds, or to the plants pre- or post-emergence.

Application rate is 10 g-10 kg/ha of the combination, with the weight ratio (A):(B) = 1:0.001-1000.

ADVANTAGE - (A) and (B) are strongly synergistic.

ABSTRACTED-PUB-NO:

US 5968873A EQUIVALENT-ABSTRACTS:

A selective herbicide comprises a carbamoyltriazolinone (A) of formula (I); and one or more herbicides (B). (B) = acetochlor, aclonifen, alachlor, amidosulfuron, atrazin, benzoylprop-ethyl, bentazon, bifenox, bromobutide, bromofenoxim, bromoxynil, butachlor, butylate, carfentrazone-ethyl (F-8426), chlomethoxyfen, chloramben, chlornitrofen, chlorsulfuron, chlortoluron, cinosulfuron, clodinafop-propargyl, clopyralid, clopyrasulfuron (halosulfuron, NC-319), cloransulam-methyl, cyanazine, cyclosulfamuron (AC-322140), dicamba, dichlorprop-P, diclofop-methyl, difenzoquat, diflufenican, dimethenamid (SAN 582), 2,4-D, dimexyflam (IDH-1105), diquat, dithiopyr, DPX-KE-45 9, EPTC, esprocarb, ET-751, ethoxyfen, ethoxysulfuron (HOE-095404), fenoxaprop-ethyl, flamprop-isopropyl, flamprop-isopropyl-L, flamprop-methyl, flumiclorac-pentyl, fluoroglycofenethyl, flupoxam, flupropacil, flurenol, fluroxypyr, flumetsulam (DE-498), fluthiacet-methyl (KIH-920 1), glufosinate (ammonium salt), glyphosate (isopropylammonium salt), imazamethabenz-methyl, imazamethapyr, imazamox, imazaquin, imazethapyr, imazosulfuron, ioxynil, isoproturon, isoxaben, isoxaflutole (RPA-201772), linuron, MCPA, mecoprop, metazachlor, metobenzuron (UMP-488), metobromuron, metolachlor, metosulam (DE-511), metoxuron, metribuzin, metsulfuron-methyl, naproanilide, neburon, nicosulfuron, oxasulfuron, paraquat, pendimethalin, primisulfuron-methyl, prosulfocarb, prosulfuron, pretilachlor, propachlor, pyridate, pyrazolate, pyrazoxyfen, pyrazosulfuron-ethyl, quinmerac, rimsulfuron, simazin, sulcotrione, selfentrazone (F-6285), sulfosate, sulfosulfuron (MON-37500), terbuthylazine, terbutryn, thenylchlor, thidiazimin, thifensulfuron-methyl, tralkoxydim, triallate, triasulfuron, tribenuron-methyl, tridiphane or trifluralin. R1 = H, OH, NH2, or (all optionally substituted) alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkynyloxy, alkylamino, alkenylamino, alkynylamino, alkylideneamino, dialkylamino, cycloalkyl, cycloalkylalkyl, aryl or arylalkyl; R2 = alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkynyloxy, alkylthio, alkenylthio, alkynylthio, alkylamino, alkenylamino, alkynylamino, dialkylamino, cycloalkyl, cycloalkyloxy, cycloalkylalkyl, aryl, aryloxy, arylthio, arylamino or arylalkyl (all optionally substituted); R3 = alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, arylalkyl, arylalkenyl or arylalkynyl.

USE - The herbicide composition is used in maize, wheat, barley and rice, especially in conventional or soil-improving maize cultivation (claimed) or in other monocotyledon or dicotyledon crops, against both dicotyledon and monocotyledon weeds. The combination is used in the soil before planting seeds, or to the plants pre- or post-emergence.

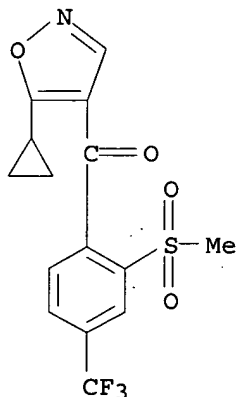
Application rate is 10 g-10 kg/ha of the combination, with the weight ratio (A):(B) = 1:0.001-1000.

ADVANTAGE - (A) and (B) are strongly synergistic.

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
RN 141112-29-0 REGISTRY
CN Methanone, (5-cyclopropyl-4-isoxazolyl) [2-(methylsulfonyl)-4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Balance
CN EXP 31130A
CN **Isoxaflutole**
CN Merlin
CN RP 201772
CN RPA 201772
FS 3D CONCORD
MF C15 H12 F3 N O4 S
CI COM
SR CA
LC STN Files: AGRICOLA, AQUIRE, BIOBUSINESS, BIOSIS, CA, CAPLUS, CEN, CHEMCATS, CHEMLIST, CIN, MEDLINE, MRCK*, PROMT, TOXCENTER, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

129 REFERENCES IN FILE CA (1962 TO DATE)
42 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
133 REFERENCES IN FILE CAPLUS (1962 TO DATE)

(FILE 'HOME' ENTERED AT 10:00:29 ON 29 OCT 2002)

FILE 'REGISTRY' ENTERED AT 10:01:51 ON 29 OCT 2002

L1 1 S ISOXAFLUTOLE/CN

FILE 'CAPLUS, USPATFULL' ENTERED AT 10:03:35 ON 29 OCT 2002

L2 166 S L1

L3 97973 S HERBICIDE

L4 34 S L2 (P) L3

L5 12 S L2 (3A) L3

L6 3 S L2 (A) L3

L7 9 S L5 NOT L6

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Term	Documents
(1 NOT 5).DWPI.	1
(L1 NOT L5).DWPI.	1

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Search:

L6

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Clear

Search HistoryDATE: Tuesday, October 29, 2002 [Printable Copy](#) [Create Case](#)**Set Name Query**

side by side

Hit Count Set Name

result set

DB=DWPI; PLUR=YES; OP=ADJ

<u>L6</u>	11 not l5	1	<u>L6</u>
<u>L5</u>	11 and L4	19	<u>L5</u>
<u>L4</u>	herbicid\$6	28691	<u>L4</u>
<u>L3</u>	11 and L2	0	<u>L3</u>
<u>L2</u>	\$10silicon or \$10silicone or \$10silane or \$10silicate	356986	<u>L2</u>
<u>L1</u>	isoxaflutole	20	<u>L1</u>

END OF SEARCH HISTORY